



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/081,084	02/22/2002	Indra Laksono	1459-VIXS029	2352
29331 7590 10/30/2007 LARSON NEWMAN ABEL POLANSKY & WHITE, LLP 5914 WEST COURTYARD DRIVE SUITE 200 AUSTIN, TX 78730			EXAMINER SHEPARD, JUSTIN E	
			ART UNIT 2623	PAPER NUMBER
			MAIL DATE 10/30/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No. 10/081,084	Applicant(s) LAKSONO ET AL.	
	Examiner Justin E. Shepard	Art Unit 2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 October 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 31, 32 and 58-63 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 31, 32 and 58-63 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

**DETAILED ACTION**

***Response to Arguments***

Applicant's arguments filed 10/4/07 have been fully considered but they are not persuasive.

Page 3, last paragraph:

The applicant argues that Deshpande does not disclose a system wherein the receiver determines a first multicast address from a plurality of multicast addresses based on a data transmission rate of a transmission connection of the receiver. The portion of Deshpande cited by the applicant (column 5, lines 3-8) does not disclose wherein a receiver determines a first multicast address, but it does disclose a system wherein the servers collect information about the bandwidths being experienced by the receivers, and creates multiple streams of a video corresponding to different video resolutions. In the background, Deshpande (column 1, lines 22-26, 57-67, and 11-19) teaches that these different video streams can be delivered as a plurality of multicast addresses that an individual receiver can subscribe to, depending on their bandwidth. This subscribing to a multicast address is being interpreted as being equivalent to a receiver determining a multicast address.

Page 5, paragraph beginning with "To illustrate":

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by

combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the modification of Deshpande to a one-way network would be a valid motivation as the return path in Deshpande is used to optimize the bandwidth usage, of which is not being used in the rejection of the claim limitations.

Page 6, paragraph beginning with "Turning to Cheriton":

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., subscribing to a multicast address) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). As argued above with regards to Deshpande, Cheriton (column 6, line 63 – column 7, line 8) discloses a system that subscribes to one of two multicast channels, each providing a different video resolution.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claim 58 is rejected under 35 U.S.C. 102(e) as being anticipated by Deshpande.

Referring to claim 58, Deshpande discloses a method comprising:

determining, at a networked display device, a first data transmission rate of a transmission connection of the networked display device at a first time (column 4, lines 32-36 and 40-44);

determining, at the networked display device, a first multicast address from a plurality of multicast addresses based on the first data transmission rate (column 5, lines 3-8), each of the plurality of multicast addresses associated with a corresponding version of a plurality of versions of a video stream (column 1, lines 22-26 and 57-67);  
and

receiving, at the networked display device, a first version of the plurality of versions of the video stream via the transmission connection using the first multicast address for a first duration (column 2, lines 11-19; figure 3).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 59 is rejected under 35 U.S.C. 103(a) as being unpatentable over Deshpande.

Referring to claim 59, Deshpande does not disclose a method of claim 58, wherein receiving the first version of the plurality of versions of the video stream comprises: processing, at the networked display device, a plurality of transmitted data packets associated with the first multicast address and having data representative of the first version of the plurality of versions of the video stream.

The examiner takes Official Notice that it is notoriously well known in the art for a device that receives video from a network to be able to process the data associated with the video streams.

At the time of the invention it would have been obvious for one of ordinary skill in the art to add video processing to the device disclosed by Deshpande. The motivation would have been that presenting the video to a user would require processing the video stream.

3. Claim 60 is rejected under 35 U.S.C. 103(a) as being unpatentable over Deshpande in view of Schober.

Referring to claim 60, Deshpande does not disclose a method of claim 58, wherein the transmission connection comprises a wireless connection between the networked display device and an access point.

In an analogous art, Schober teaches a method of claim 58, wherein the transmission connection comprises a wireless connection between the networked display device and an access point (page 7, paragraph 73, lines 8-14).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the wireless transmission taught by Schober in the method disclosed by Deshpande. The motivation would have been to enable the display device to be able to be used in places without a physical connection.

4. Claims 61 is rejected under 35 U.S.C. 103(a) as being unpatentable over Deshpande in view of Hinderks.

Referring to claim 61, Deshpande does not disclose a method of claim 58, wherein determining the first multicast address comprises performing a table lookup based on the first data transmission rate.

In an analogous art, Hinderks teaches a method of claim 58, wherein determining the first multicast address comprises performing a table lookup based on the first data transmission rate (page 5, paragraph 54, lines 1-6 and 16-22).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the lookup table taught by Hinderks in the method disclosed by Deshpande. The motivation would have been to enable the system to use a one-way network (page 5, paragraph 54, lines 16-22).

5. Claim 62 is rejected under 35 U.S.C. 103(a) as being unpatentable over Deshpande in view of Aho.

Referring to claim 62, Deshpande does not disclose a method of claim 58, further comprising:

determining, at the networked display device, a second data transmission rate of a transmission connection of the networked display device at a second time subsequent to the first time;

determining a second multicast address from the plurality of multicast addresses based on the second data transmission rate; and

receiving, at the networked display device, a second variation of the plurality of versions of the video stream via the transmission connection using the second multicast address for a second duration subsequent to the first duration.

In an analogous art, Aho teaches a method of claim 58, further comprising:

determining, at the networked display device, a second data transmission rate of a transmission connection of the networked display device at a second time subsequent to the first time;



determining a second multicast address from the plurality of multicast addresses based on the second data transmission rate; and

receiving, at the networked display device, a second variation of the plurality of versions of the video stream via the transmission connection using the second multicast address for a second duration subsequent to the first duration (column 2, lines 66-67; column 3, lines 1-13).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the adaptive transmission rate method taught by Aho in the method disclosed by Deshpande. The motivation would have been to provide a system wherein the user can move away from the signal source without losing the feed (Aho: column 3, lines 7-13).

6. Claim 63 is rejected under 35 U.S.C. 103(a) as being unpatentable over Deshpande in view of Aho as applied to claim 62 above, and further in view of Hinderks.

Referring to claim 63, the claim is rejected on the same grounds as claim 61.

7. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cheriton in view of Deshpande in view of Schober.

Referring to claim 31, Cheriton discloses a method comprising:

subscribing at the display device to a first channel of a plurality of channels of a multicast channel (column 7, lines 5-8; figure 5, part 550; column 2, lines 59-65), wherein each channel of the plurality of channels is used to provide a different version

of a plurality of versions of a video stream, and where each version of the video stream includes a different resolution scale (column 6, lines 63-67; column 7, lines 1-5); and  
accessing the first channel to receive a version of the video stream associated with the first channel (column 7, lines 5-8).

Cheriton does not disclose a method including the steps of determining at a display device a first data transmission rate between the display device and a wireless access point; wherein subscribing at the display device to a first channel of a plurality of channels of a multicast channel is based on the first data transmission rate.

In an analogous art, Deshpande teaches a method including the steps of determining at a display device a first data transmission rate between the display device and an access point; wherein subscribing at the display device to a first channel of a plurality of channels of a multicast channel is based on the first data transmission rate (column 4, lines 32-36 and 40-44; column 1, lines 22-26 and 57-67; column 2, lines 11-14 and 18-19).

At the time of the invention it would have been obvious for one of ordinary skill in the art to add the data transmission rate determining taught by Deshpande to the method disclosed by Cheriton. The motivation would have been to enable the receiver to only be able to subscribe to channels that matched the receiver's available bandwidth, therefore allowing the system to preserve bandwidth.

Cheriton and Deshpande do not disclose a method wherein the access point is a wireless access point.

In an analogous art, Schober teaches a method wherein the access point is a wireless access point (page 7, paragraph 73, lines 8-14).

At the time of the invention it would have been obvious for one of ordinary skill in the art to add the wireless access point, as taught by Schober, in the method disclosed by Cheriton and Deshpande. The motivation would have been to enable the user to enjoy video playback while not being constrained to one physical location.

8. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cheriton in view of Deshpande in view of Schober as applied to claim 31 above, and further in view of Sachs.

Referring to claim 32, Cheriton, Deshpande, and Schober do not disclose a method of claim 31, wherein the multicast channel is based on a IEEE 802.11 standard.

Sachs discloses a method of claim 31, wherein the multicast channel is based on a IEEE 802.11 standard (paragraph 19, lines 2-9).

At the time of the invention it would have been obvious for one of ordinary skill in the art to add the wireless transmission taught by Sachs to the method disclosed by Cheriton, Deshpande, and Schober. The motivation would have been to enable the user to enjoy video playback while not being constrained to one physical location.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin E. Shepard whose telephone number is (571) 272-5967. The examiner can normally be reached on 7:30-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on (571) 272-7331. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2623

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JS

  
CHRIS KELLEY  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600